

Amendments to the Specification:

Please insert the following headings after the Title:

BACKGROUND OF THE INVENTION

1. **Field of the Invention**

Please replace paragraph [0001] with the following amended paragraph:

[0001] The invention relates to an electromotive drive, in particular to an auxiliary drive for use in vehicles, ~~according to the preamble of Claim 1. Electromotive auxiliary drives for use in vehicles, for example in windscreen wiper systems, electric window lift mechanisms, electric seat adjustment devices, etc., are known in various embodiments and usually consist of an electric motor and of gearing which is flanged-mounted on the electric motor or the housing thereof. The motor shaft or armature shaft of the electric motor passes through a through-opening from the interior of the motor housing into the gearing housing, and is mounted there in a bearing (ball bearing) in the region of the through-opening or on a housing flange which forms this through-opening.~~

Please insert the following heading after paragraph [0001]:

2. **Description of the Related Art**

Please insert the following new paragraph after paragraph [0001]:

[0001.1] Electromotive auxiliary drives for use in vehicles, for example in windscreen wiper systems, electric window lift mechanisms, electric seat adjustment devices, etcetera, are known in various embodiments and usually consist of an electric motor and of gearing which is flanged-mounted on the electric motor or the housing thereof. The motor shaft or armature shaft of the electric motor passes through a through-opening from the interior of the motor housing into the gearing housing and is mounted there in a bearing (ball bearing) in the region of the through-opening or on a housing flange which forms this through-opening.

Please replace paragraph [0002] with the following amended paragraph:

[0002] In order to control and/or monitor the motor, particularly in the case of reversing drives, a control magnet is often also provided on the motor shaft within the gearing housing, which control magnet rotates with the motor shaft and cooperates with at least one sensor which is provided on a board within the gearing housing in the direct vicinity of the rotating path of the control magnet, said and the board forming forms a control circuit for the motor. ~~The electric motors used in such auxiliary drives are in principle those in which the supply and control of the current takes place on the armature winding via a commutator and carbon brushes which cooperate therewith. In this case, it is impossible to avoid the situation whereby a not inconsiderable amount of abraded material, particularly carbon dust, is produced during operation of the motor, which may lead to damage to the bearing for the armature shaft but also passes into the interior of the gearing housing and deposits there as an electrically conductive layer inter alia on the board which forms the motor control system. In order to prevent short circuits between contacts and/or conductor tracks, etc. on the board, it is necessary to cover this board, the contact faces and/or conductor tracks thereof and also the components themselves with a protective insulating layer, or else to screen the board from the interior of the gearing by means of an intermediate wall or to accommodate the board in a screened partial area of the gearing chamber. These measures are relatively complicated.~~

Please insert the following new paragraph after paragraph [0002] :

[0002.1] The electric motors used in such auxiliary drives are in principle those in which the supply and control of the current takes place on the armature winding via a commutator and carbon brushes which cooperate therewith. In this case, it is impossible to avoid the situation whereby a not inconsiderable amount of abraded material, particularly carbon dust, is produced during operation of the motor, which may lead to damage to the bearing for the armature shaft, but also passes into the

interior of the gearing housing and deposits there as an electrically conductive layer inter alia on the board which forms the motor control system. In order to prevent short-circuits between contacts and/or conductor tracks, etcetera on the board, it is necessary to cover this board, the contact faces and/or conductor tracks thereof and also the components themselves with a protective insulating layer, or else to screen the board from the interior of the gearing by means of an intermediate wall or to accommodate the board in a screened partial area of the gearing chamber. These measures are relatively complicated.

Please insert the following new paragraph after paragraph [0002.1] :

[0002.2] What is needed therefore, is a system and motor that overcomes one or more of the problems of the prior art.

Please insert the following heading after paragraph [0002.2]

SUMMARY OF THE INVENTION

Please replace paragraph [0003] with the following amended paragraph:

[0003] ~~The~~ One object of the invention is to provide a drive which prevents damage to the bearing of the armature shaft and interference on the electrical motor control system in a particularly simple and cost-effective manner.

Please replace paragraph [0004] with the following amended paragraph:

[0004] By virtue of the design according to one embodiment of the invention, a simple and cost-effective solution is provided for screening the gearing housing and the functional elements accommodated in this gearing housing, particularly the bearing for the shaft and the board, from abraded carbon particles or carbon dust. ~~In one preferred embodiment of the invention, the screening element is at the same time another functional element, for example a carrier element for the at least one control magnet, or forms this control magnet. In principle, it is also possible that the~~

~~screening element is provided on the commutator of the electric motor or forms part of this commutator.~~

Please insert the following new paragraph after paragraph [0004]

[0004.1] In one preferred embodiment of the invention, the screening element is at the same time another functional element, for example a carrier element for the at least one control magnet, or forms this control magnet. In principle, it is also possible that the screening element is provided on the commutator of the electric motor or forms part of this commutator.

Please replace paragraph [0005] with the following amended paragraph:

[0005] The screening element is preferably an injection-~~moulded~~-molded part made of plastic. If the control magnet forms part of the screening element, this can be produced by simple ~~overmoulding~~-overmolding of at least one permanent magnet which forms the control magnet.

Please replace paragraph [0006] with the following amended paragraph:

[0006] Additional measures for protecting the board against carbon dust or abraded carbon particles, such as coating for example, that is to say covering the board, the conductor tracks and/or contacts thereon, the components, ~~etc-etcetera~~ with an insulating layer, are no longer required in the design according to the invention. In particular, there is also no need for any screening walls or screening covers for the board in the gearing housing.

Please insert the following heading after paragraph [0007] :

BRIEF DESCRIPTION OF THE DRAWINGS

Please replace paragraph [0008] with the following amended paragraph:

[0008] Fig. 1 shows a simplified partial diagram of ~~the a~~ shaft of an electromotive drive together with a commutator, the brushes which cooperate with

the commutator, and the mounting of the shaft in a gearing housing which is flange-mounted on the electric motor, together with a magnet with screening bushing which is provided on the shaft;

Please insert the following heading after paragraph [0011]:

DETAILED DESCRIPTION OF VARIOUS EMBODIMENTS

Please replace paragraph [0012] with the following amended paragraph:

[0012] In Figs. 1 and 2, reference 1 denotes ~~the~~ an armature shaft of ~~the~~ an electromotive auxiliary drive, for example of a reversing windscreen wiper drive, which essentially consists of an electric motor and of gearing which is flange-mounted on ~~the~~ a housing of the electric motor.

Please replace paragraph [0013] with the following amended paragraph:

[0013] Of the electric motor, Figs. 1 and 2 ~~show only~~ illustrates the armature shaft 1, the commutator 2 which is arranged on the armature shaft 1 and rotates with this armature shaft, and ~~the~~ a brush holder 3 for the carbon brushes 4 which cooperate with the commutator 2. The brush holder 3 consists in a known manner of a board 5, which includes inter alia a board opening 6 for the passage of the armature shaft 1, wherein inter alia two guides or supports for the containers 7 which form the brush holders 3 are provided on ~~said~~ the board 5. The diameter of the board opening 6 is greater than the diameter of the armature shaft 1. The board 5 is held at its circumference in a bowl-shaped housing flange 8.1 of the gearing housing 8, namely in such a way that the board 5 is oriented with its surface sides perpendicular to the axis of the armature shaft 1. The housing (not shown) of the electric motor is closed on the gearing side by means of the flange 8.1.

Please replace paragraph [0015] with the following amended paragraph:

[0015] A further board 11, which is arranged parallel to the axis of the armature shaft 1, is provided inside the gearing housing 8, said further board 11

being designed for example as a printed circuit board and having a plurality of electrical components which serve to control the motor. Of these components, only one sensor 12 has been shown for the sake of simplicity, said sensor 12 being designed for example as a Hall sensor or chip and cooperating with an annular control magnet 13 which is provided in an axis-parallel manner on the armature shaft 1 and rotates with the armature shaft 1. The control magnet 13, which has at least one, but preferably a number of permanent magnets in a ring made of plastic for example, serves to control and/or monitor the electric motor, for example to monitor and/or control the rotational speed and/or the reversing movement.

Please replace paragraph [0017] with the following amended paragraph:

[0017] In the illustrated embodiment, the control magnet 13 is located on a hub-shaped or disc-shaped section 14 of a screening element 15 which is produced as a ~~moulded- molded~~ part made of plastic. ~~Said- The~~ screening element furthermore has a sleeve-shaped section 16, which projects away from an end side of the section 14, and also a disc-shaped section 17, which is integrally formed at the end of the section 16 which is remote from the section 14.

Please replace paragraph [0019] with the following amended paragraph:

[0019] Figs. 3 and 4 show a further possible embodiment of the invention in which, instead of the screening bushing or screening element 15, a screening bushing or screening element 15a is used which once again is produced as a ~~moulded- molded~~ part made of plastic, namely with a section 18 with a cylindrical outer face, on which the control magnet 13 is arranged, and a section 19 which axially adjoins the section 18 and also has a cylindrical outer face, and in the mounted state extends into the through-opening 9 of the housing flange 8.1 with part of its axial length. The two sections 18 and 19 lie with their axes parallel to the axis of the armature shaft 1 (not shown in Figs. 3 and 4). The outer diameter of the section 19 is only slightly smaller than the diameter of the through-opening 9. In this

embodiment, too, the screening element 15a is located between the through-opening 9 and the bearing 10, which is provided within the gearing housing 8.

Please insert the following new paragraphs after paragraph [0023]:

[0023.1] While the process and product herein described constitute preferred embodiments of this invention, it is to be understood that the invention is not limited to this precise process and product, and that changes may be made therein without departing from the scope of the invention which is defined in the appended claims.

[0023.2] What is claimed is:

Please delete the List of References from the application:

List of references

1	armature shaft
2	commutator
3	brush holder
4	carbon brush
5	board
6	board opening
7	container
8	gearing housing
8.1	housing flange
9	through-opening in the housing flange 8.1 for the armature shaft
10	bearing for the armature shaft
11	board in the gearing housing
12	sensor
13	control magnet
14, 16, 17	section
15, 15a	screening element or bushing
18, 19	section
20, 21	recess or chamber
22	web